

Abstract

An internal combustion engine having a fuel injection valve, where, in the fuel injection valve, needle valves are pushed up and opened against force of needle valve springs by pressure of a fuel sent under pressure from a fuel injection pump, thereby injecting the fuel from an injection hole formed in a nozzle tip head section. The fuel injection valve has two of the needle valve springs, and a screw-type regulator for regulating a spring force is attached to each of the needle valve springs, and spring force of the two needle valve springs are independently regulatable by the corresponding two regulators. In assembly and regulation of the fuel injection valve, a valve opening pressure can be easily and highly accurately regulated in two stages without removing the fuel injection valve from a cylinder head and with the valve assembled in the cylinder head.